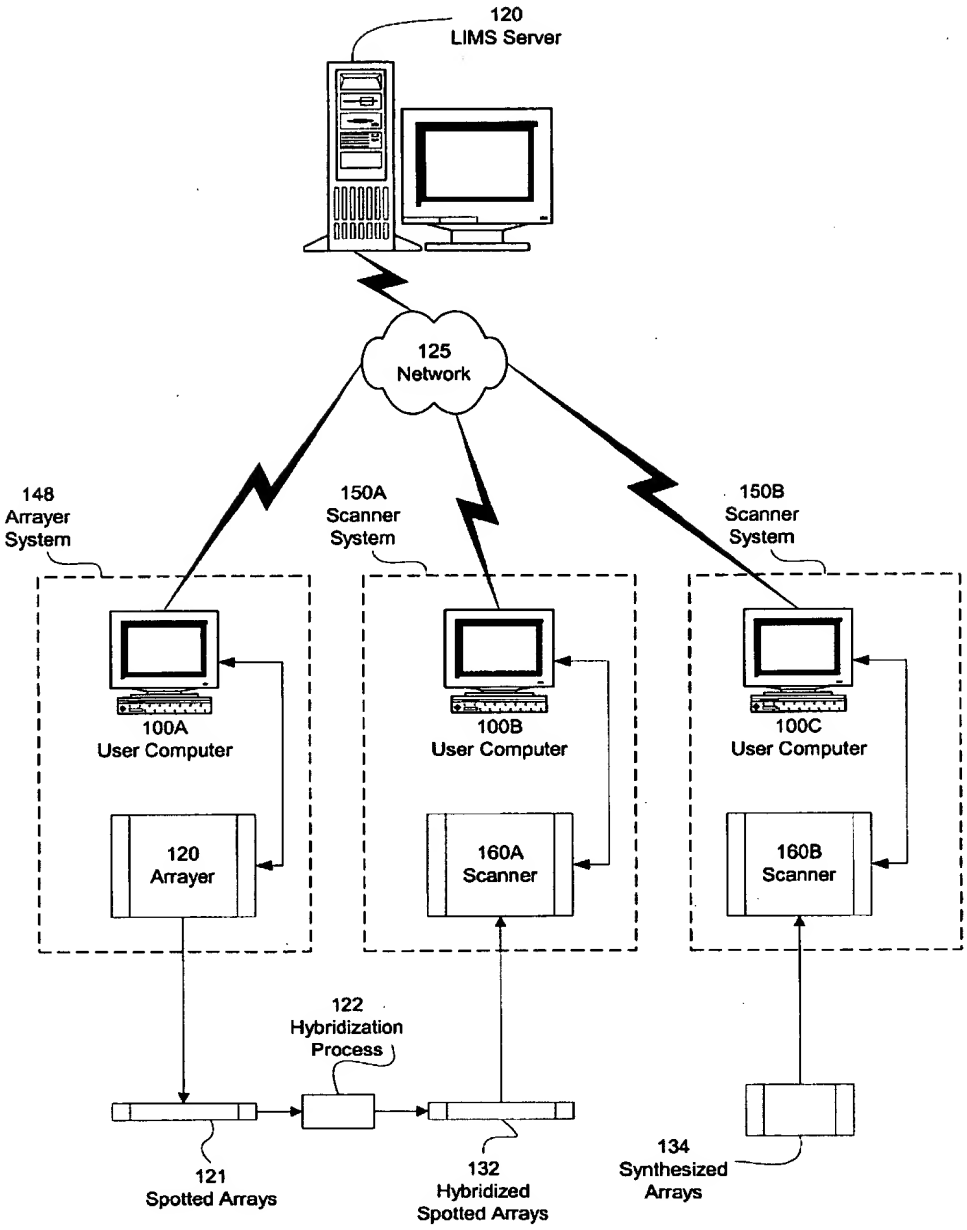
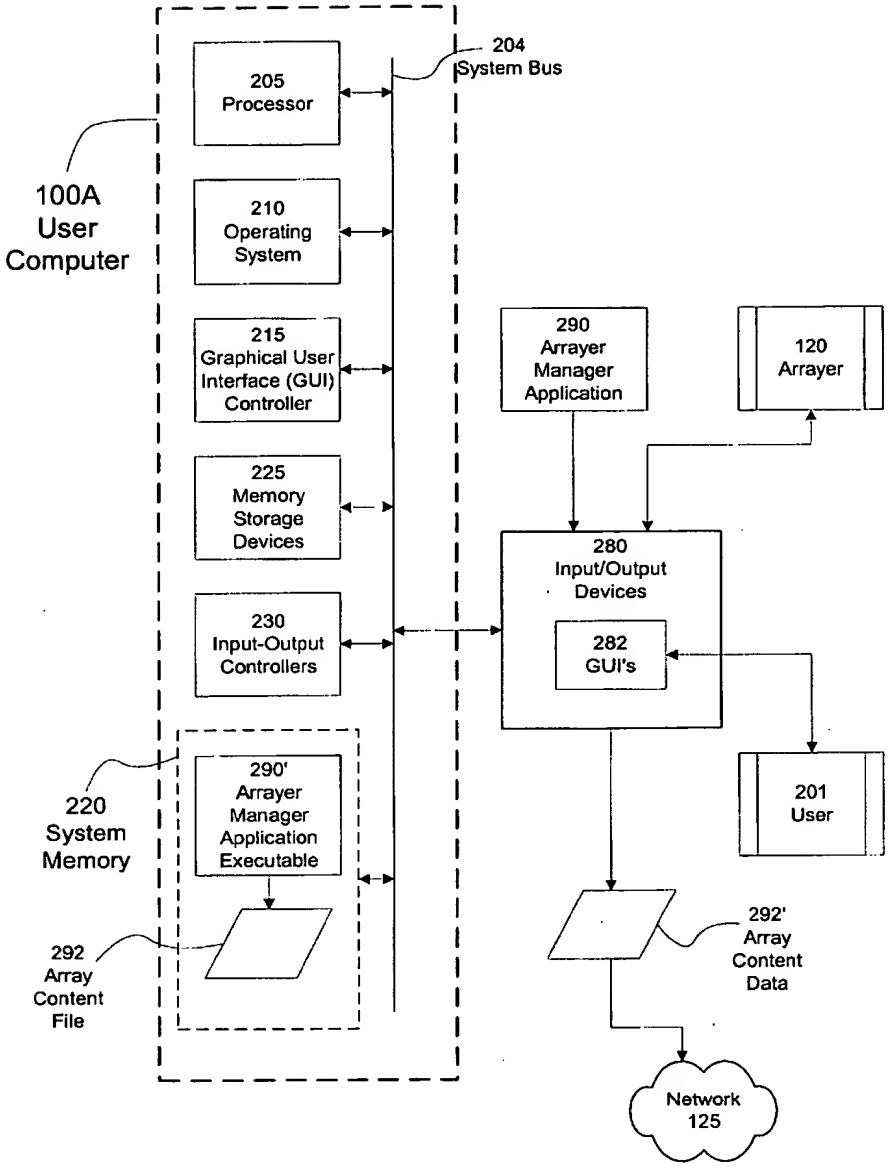
FIGURE 1



09809874.030501

FIGURE 2



DOCKET ALARM

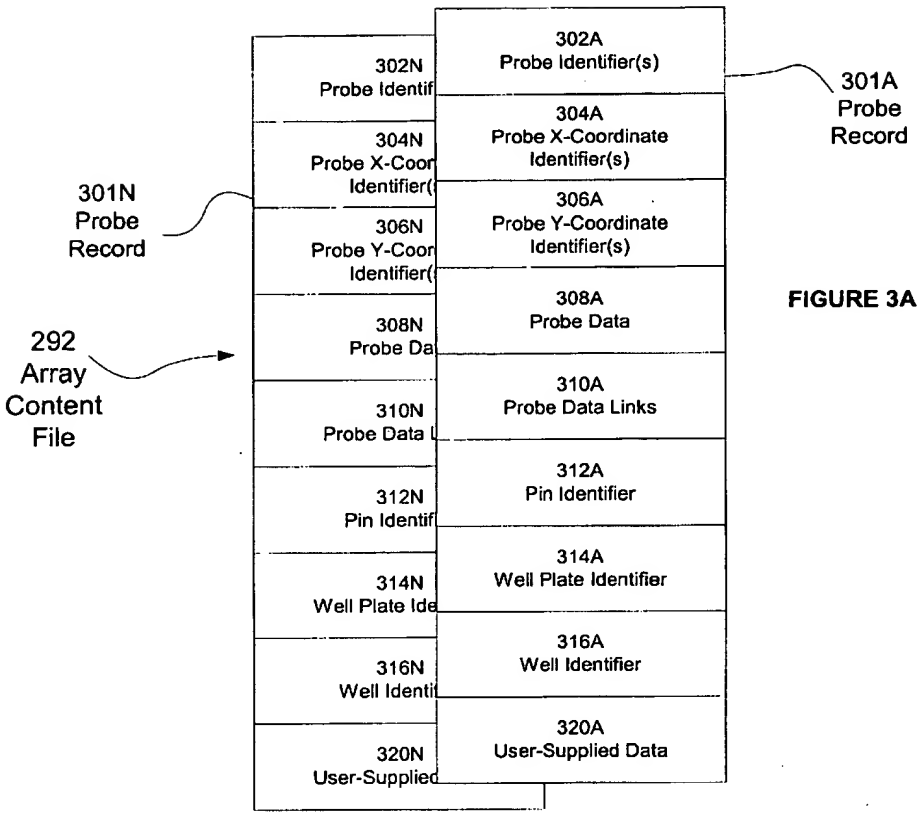


FIGURE 3A

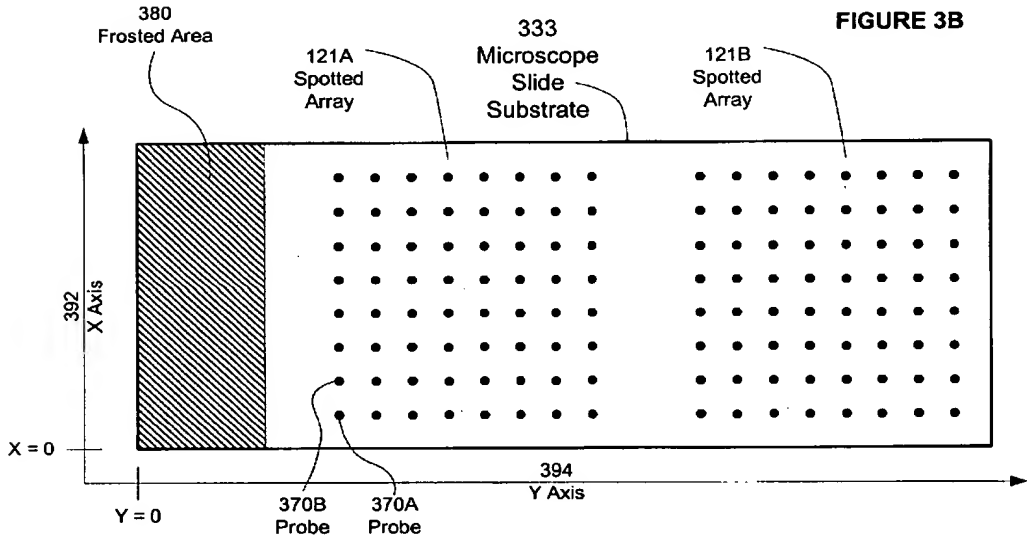


FIGURE 3B

FIGURE 4

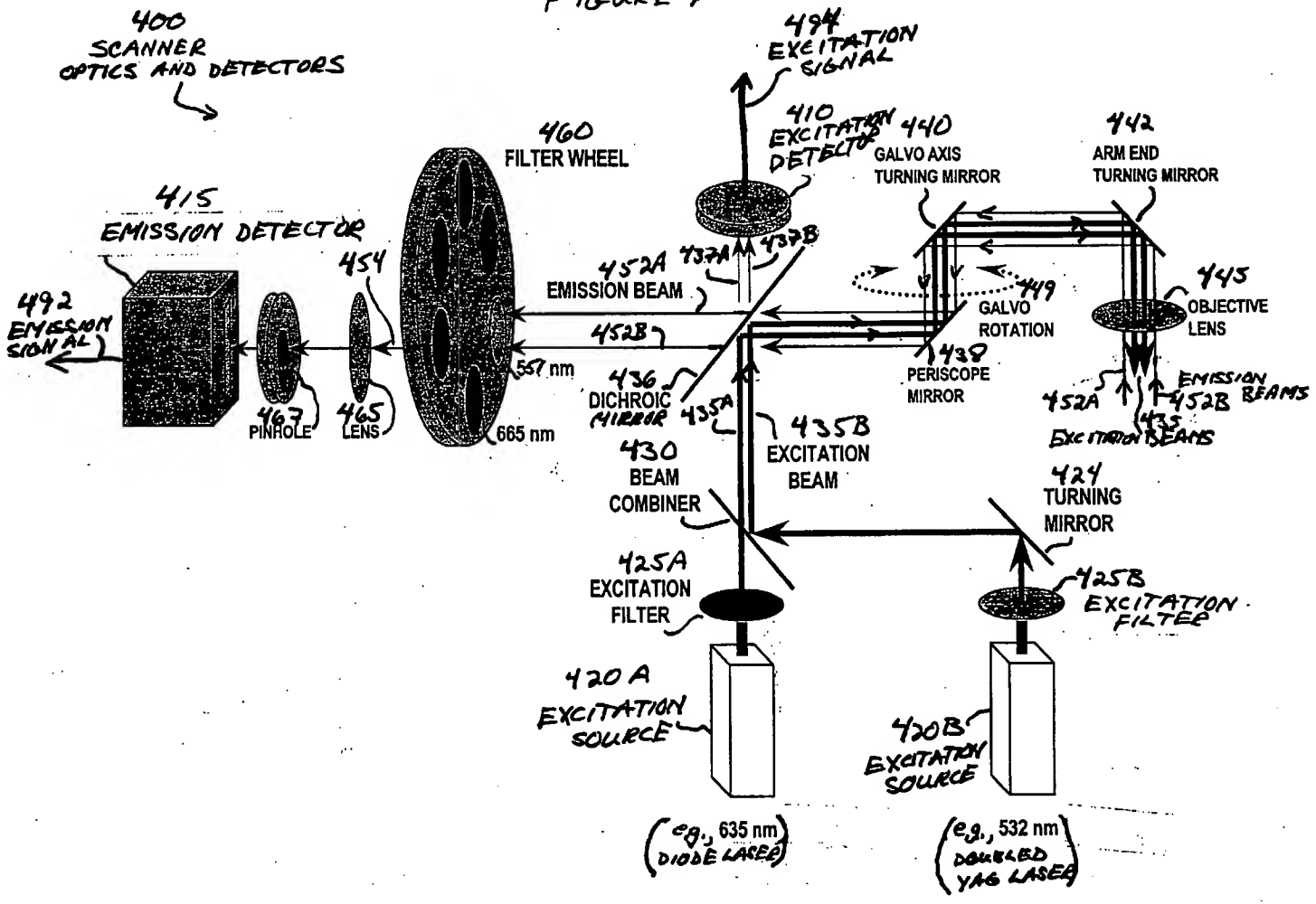

400
SCANNER OPTICS AND DETECTORS
494
EXCITATION SIGNAL
410
EXCITATION DETECTOR
440
GALVO AXIS TURNING MIRROR
442
ARM END TURNING MIRROR
460
FILTER WHEEL
415
EMISSION DETECTOR
454
452A
EMISSION BEAM
437A
437B
449
GALVO ROTATION
445
OBJECTIVE LENS
492
EMISSION SIGNAL
452B
557 nm
438
PERISCOPE MIRROR
436
DICHROIC MIRROR
435A
435B
EXCITATION BEAM
EMISSION BEAMS
452A
452B
435
EXCITATION BEAMS
430
BEAM COMBINER
424
TURNING MIRROR
425A
EXCITATION FILTER
425B
EXCITATION FILTER
467
PINHOLE
465
LENS
665 nm
420A
EXCITATION SOURCE
420B
EXCITATION SOURCE
(e.g., 635 nm DIODE LASER)
(e.g., 532 nm DOUBLED YAG LASER)

FIGURE 5A

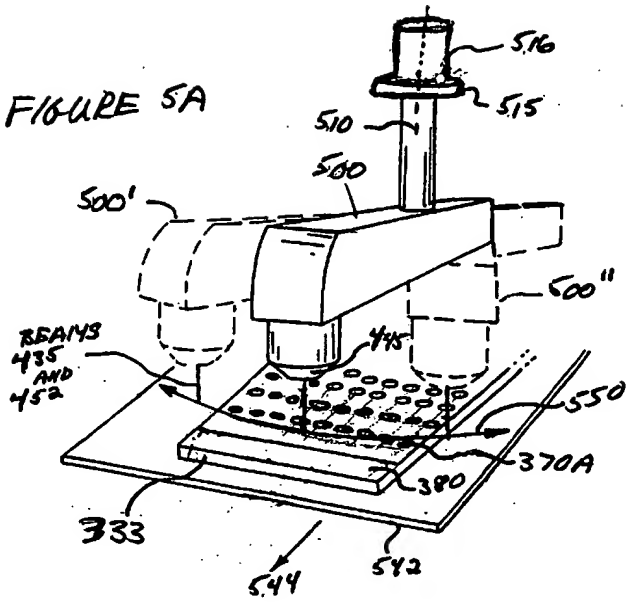


FIGURE 5B

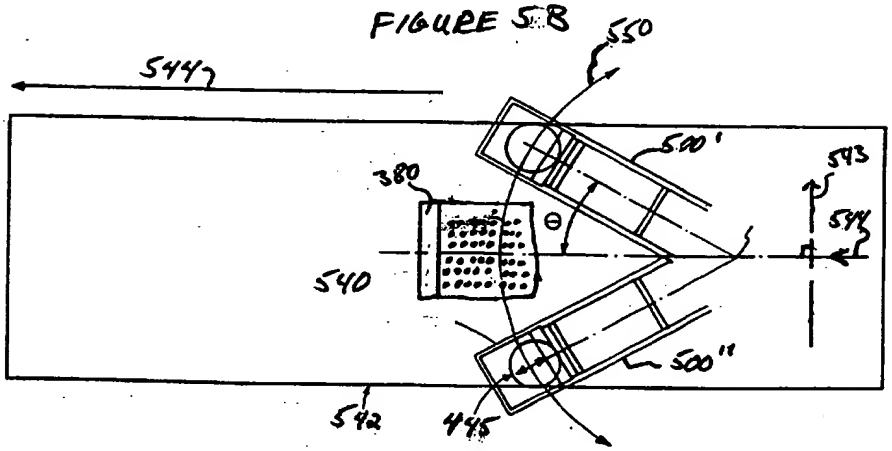


EXHIBIT 1005 - 0064

US 2005/0256398 A1

FIGURE 6A

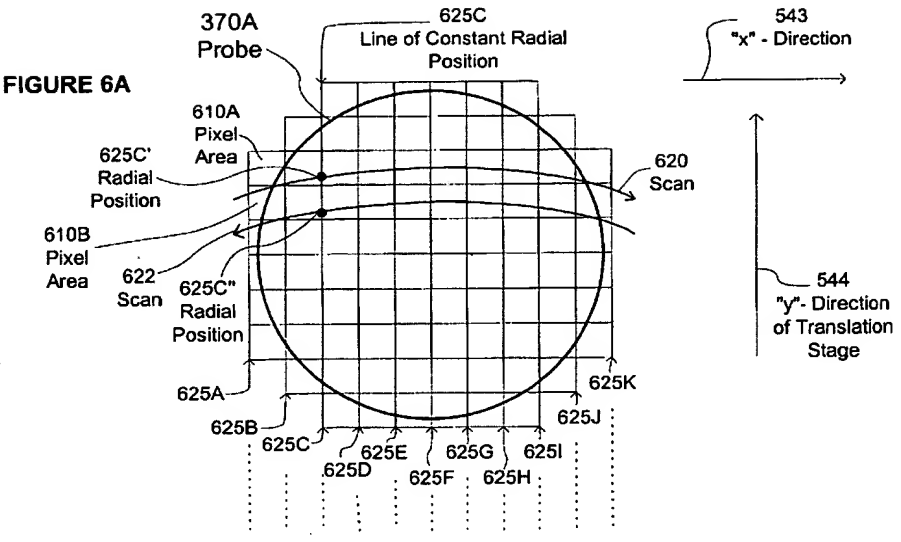


FIGURE 6B

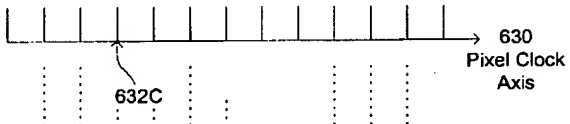


FIGURE 6C

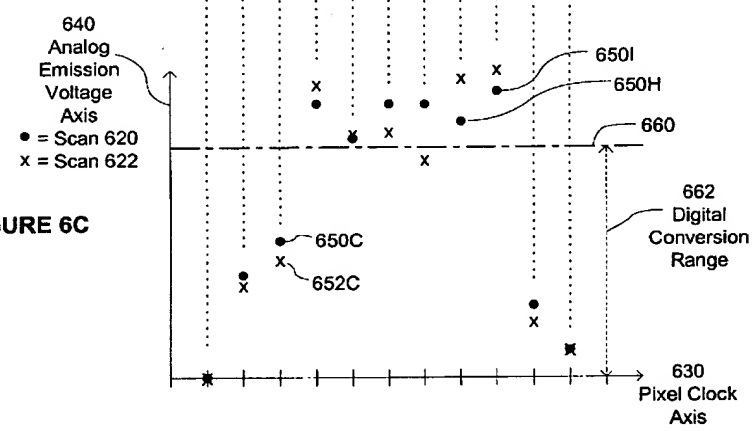


FIGURE 6D

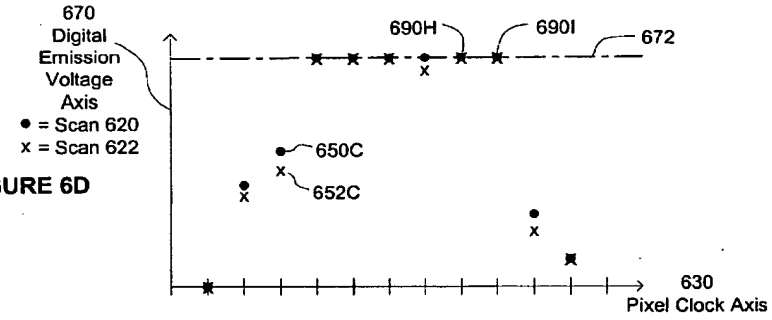


FIGURE 7

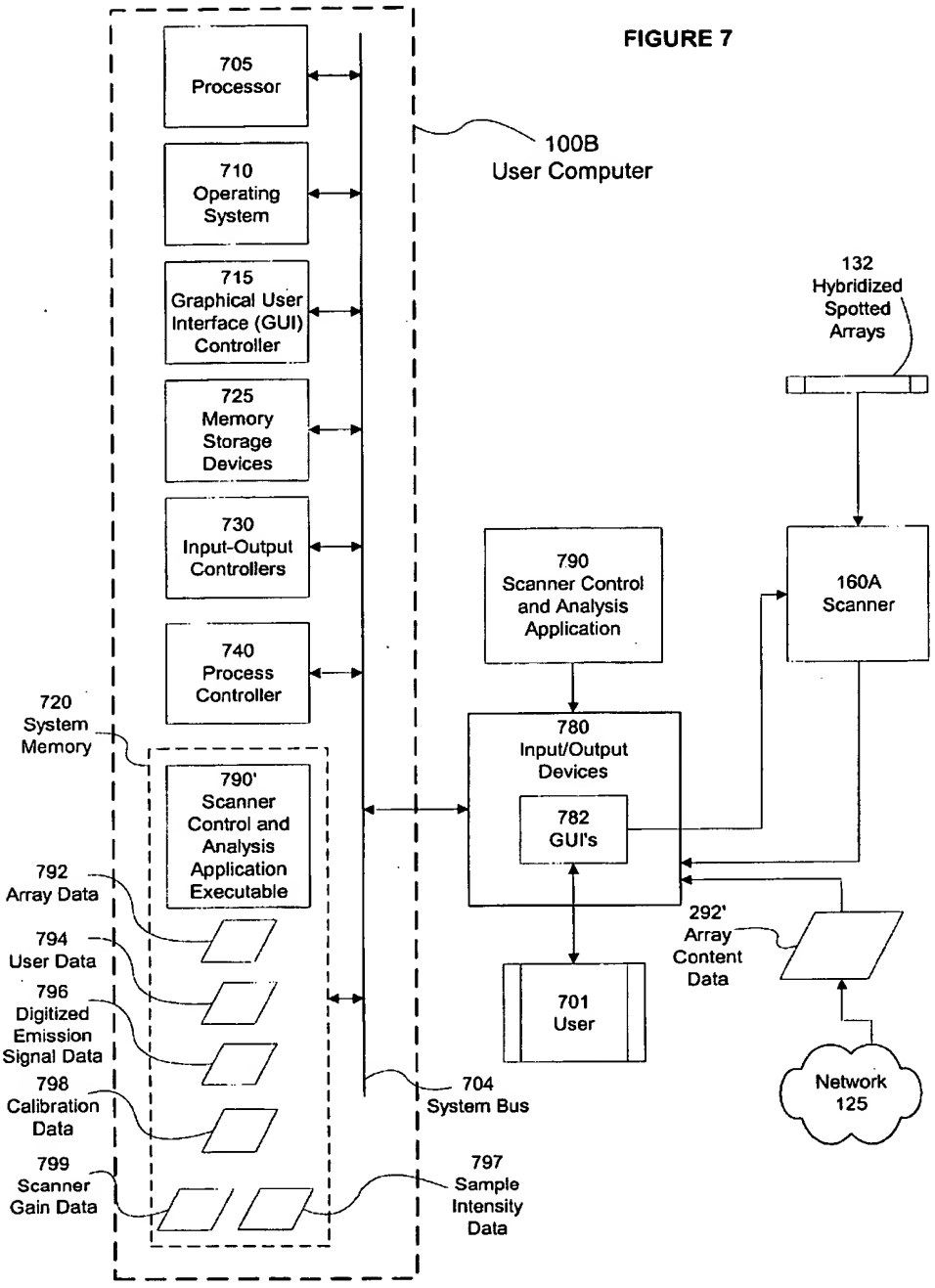
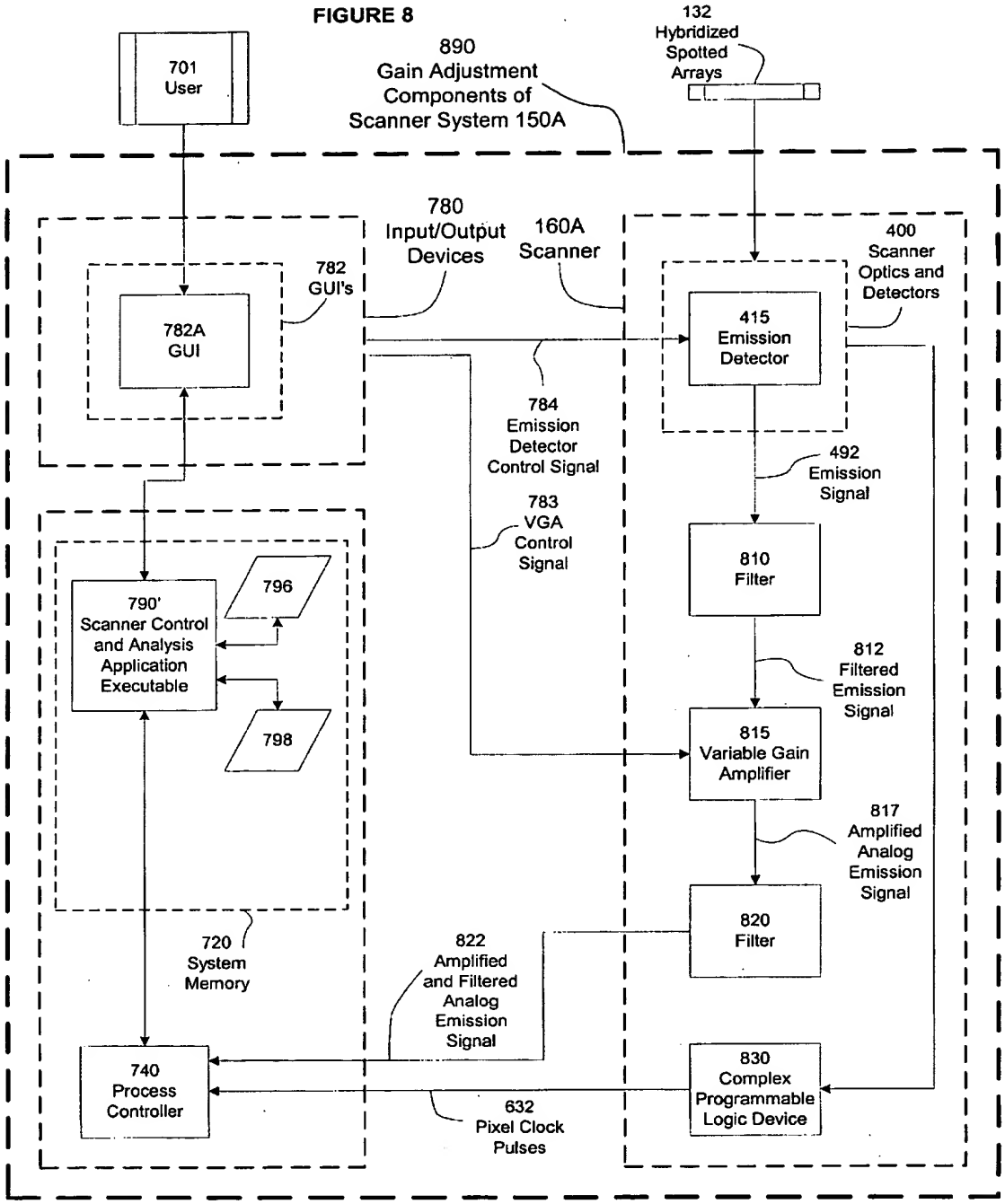
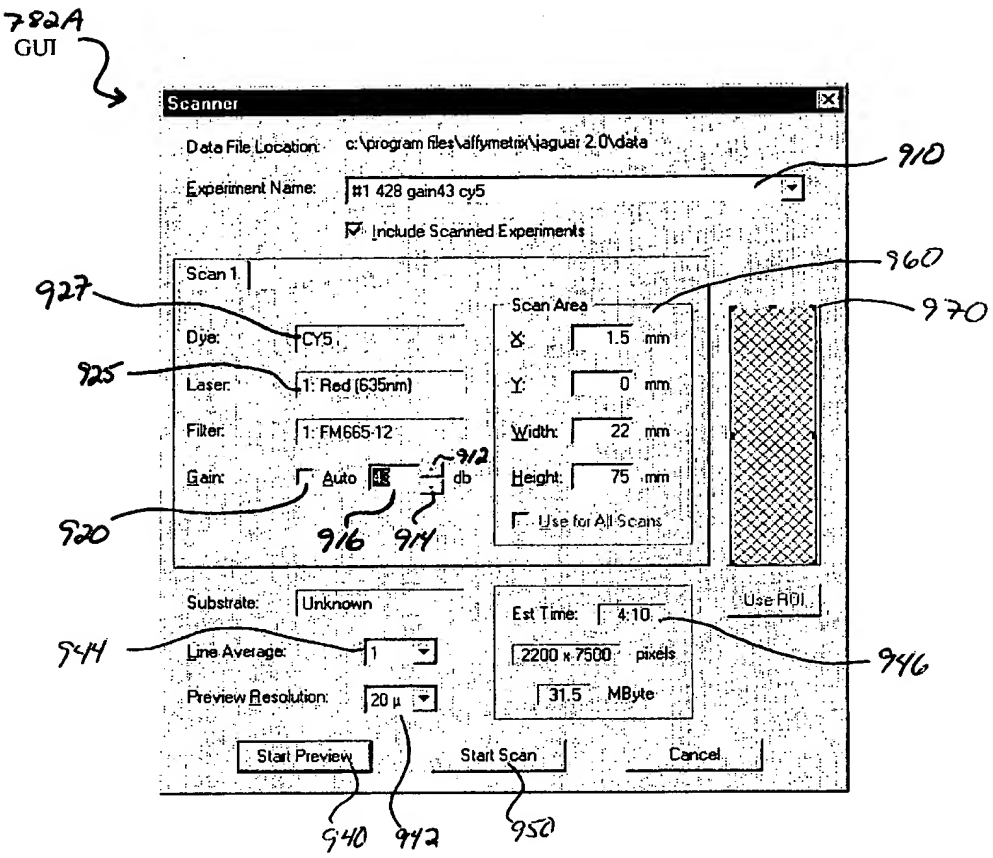

705
Processor
710
Operating
System
715
Graphical User
Interface (GUI)
Controller
725
Memory
Storage
Devices
730
Input-Output
Controllers
740
Process
Controller
720
System
Memory
790'
Scanner
Control and
Analysis
Application
Executable
792
Array Data
794
User Data
796
Digitized
Emission
Signal Data
798
Calibration
Data
799
Scanner
Gain Data
797
Sample
Intensity
Data
100B
User Computer
704
System Bus
790
Scanner Control
and Analysis
Application
780
Input/Output
Devices
782
GUI's
701
User
132
Hybridized
Spotted
Arrays
160A
Scanner
292'
Array
Content
Data
Network
125

FIGURE 8



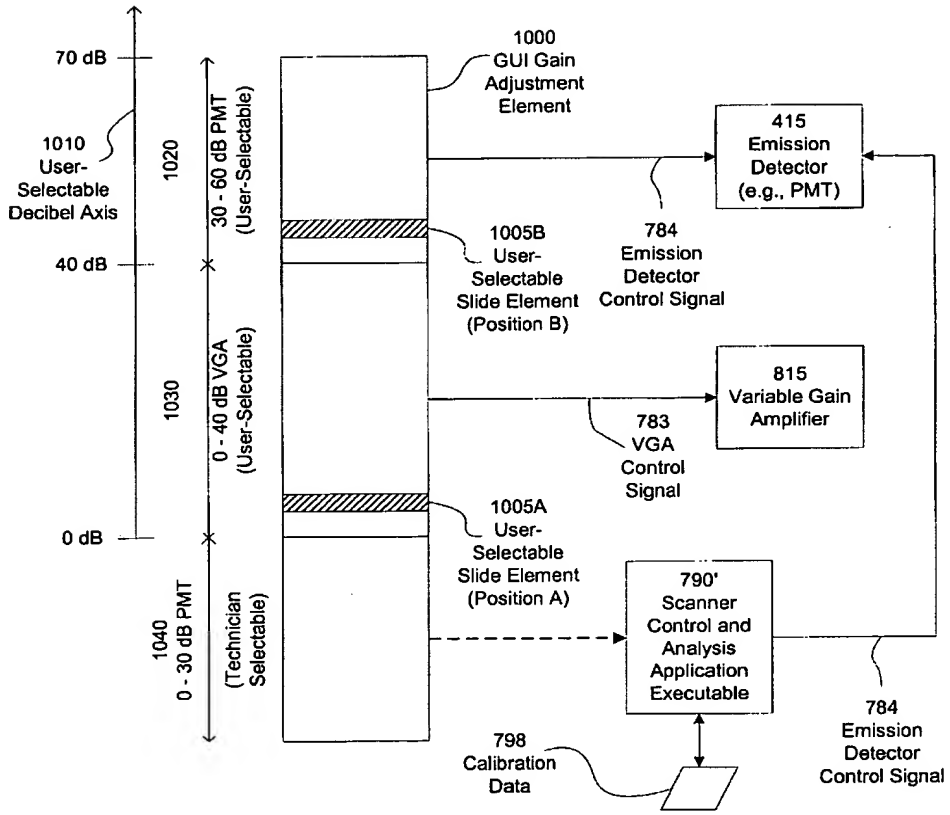
Docket No. 2001-0020-2

FIGURE 9



10/750,960

FIGURE 10



P02420-PCT-US

FIGURE 11

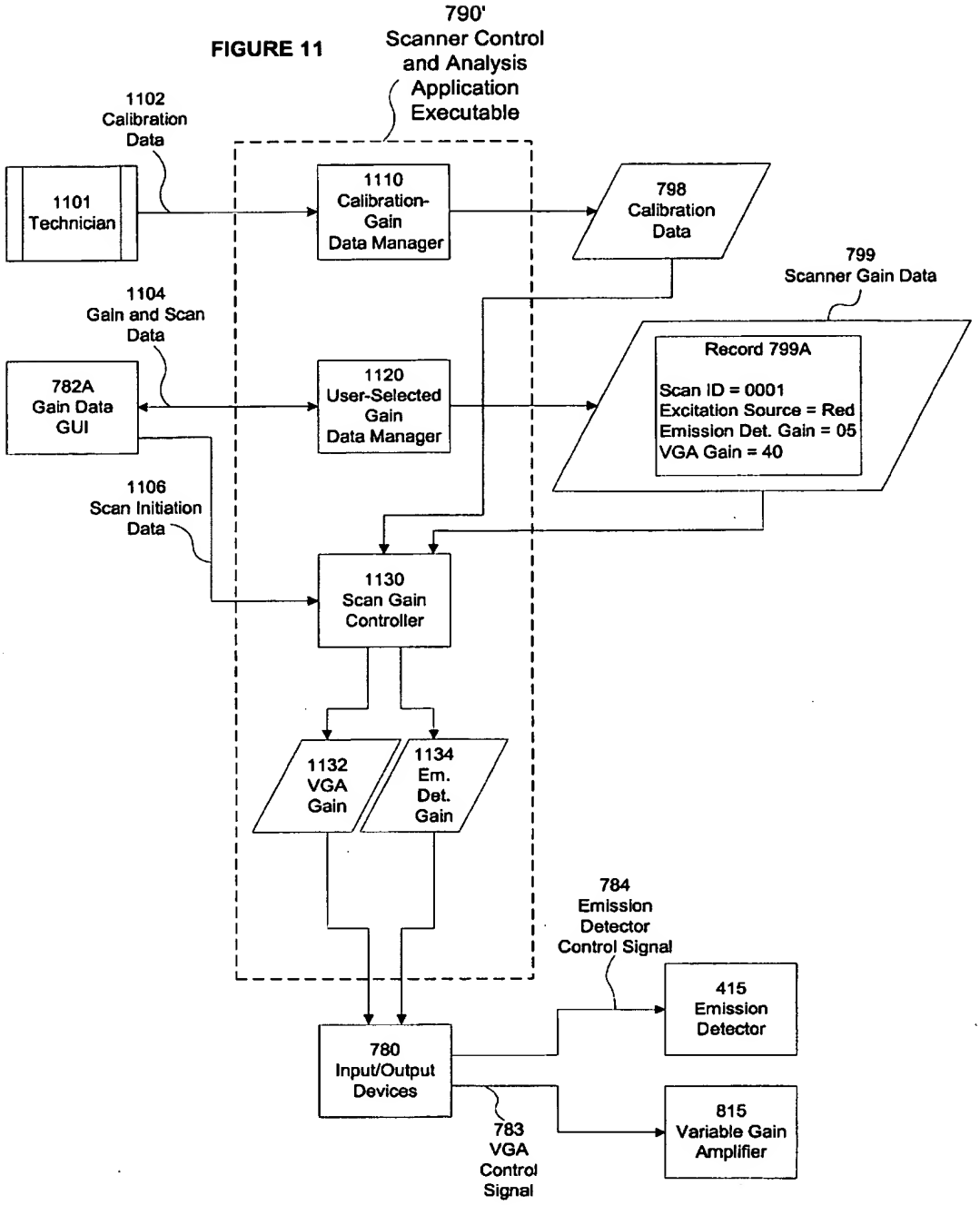


Exhibit 1006, Page 70 of 74

FIGURE 12A

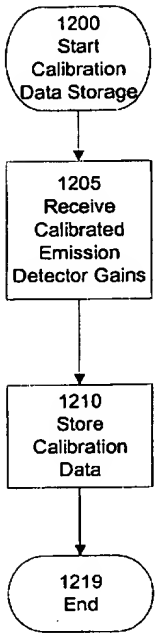


FIGURE 12B

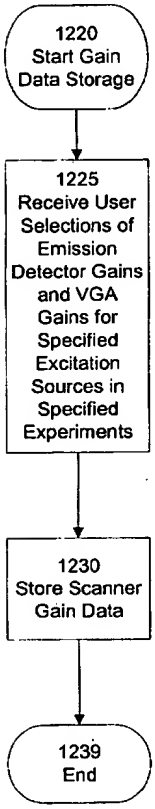
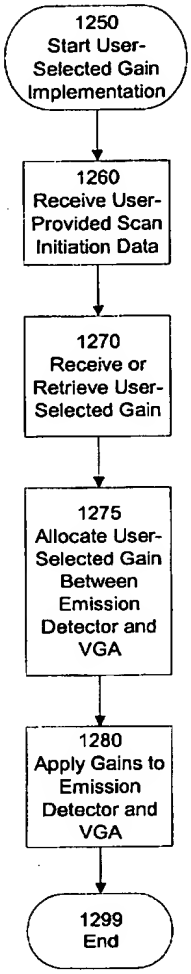


FIGURE 12C



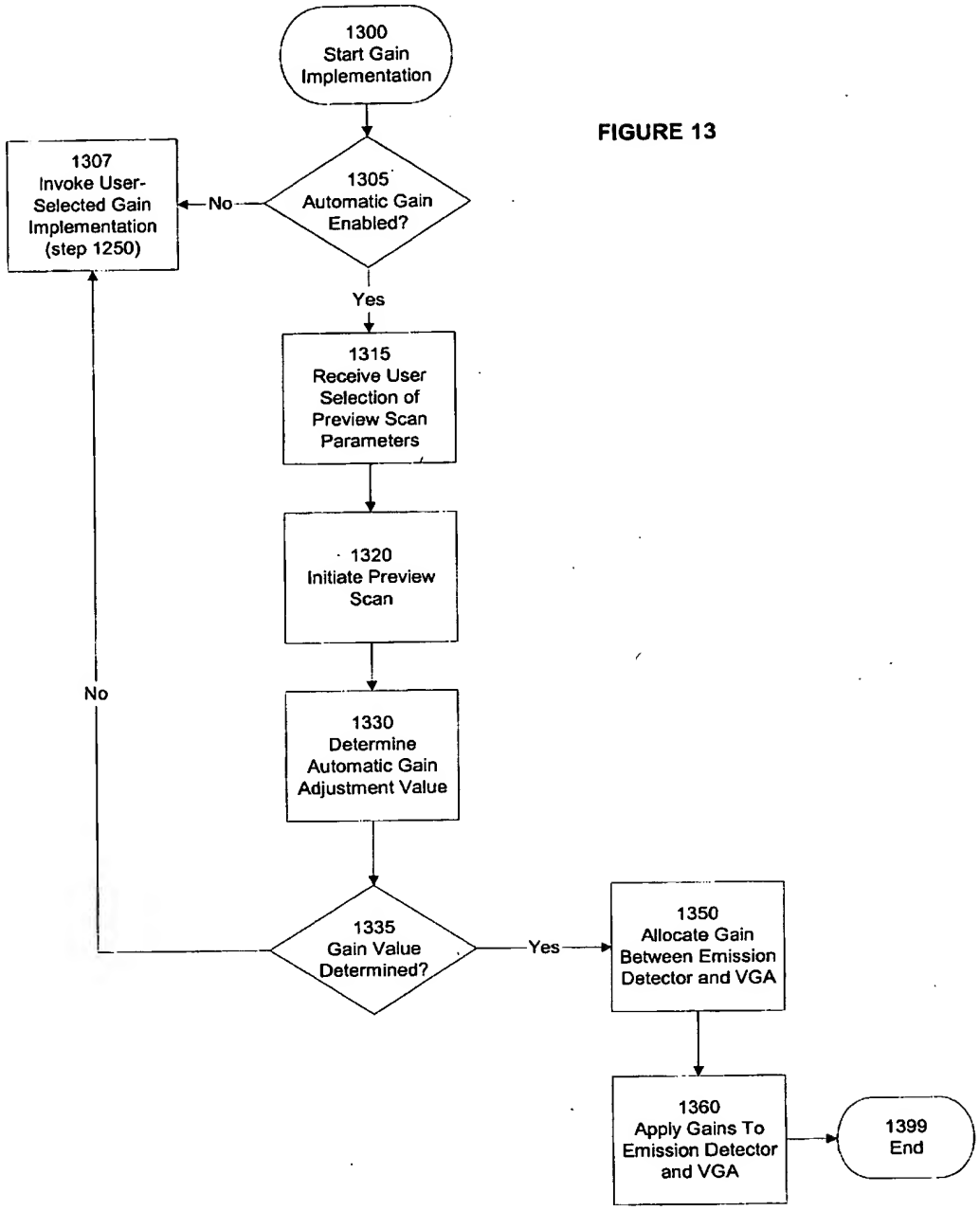

1300
Start Gain Implementation
1305
Automatic Gain Enabled?
No
1307
Invoke User-Selected Gain Implementation (step 1250)
Yes
1315
Receive User Selection of Preview Scan Parameters
1320
Initiate Preview Scan
1330
Determine Automatic Gain Adjustment Value
1335
Gain Value Determined?
No
Yes
1350
Allocate Gain Between Emission Detector and VGA
1360
Apply Gains To Emission Detector and VGA
1399
End

FIGURE 13

FIGURE 14

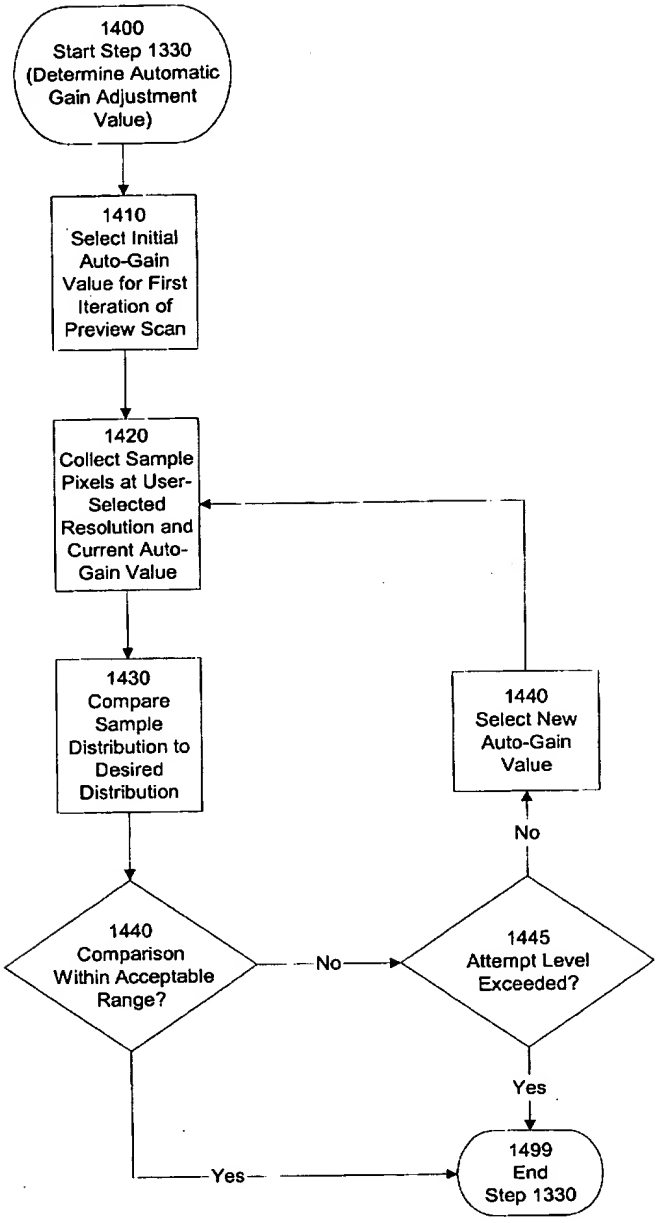


Exhibit 1006 - Page 0073

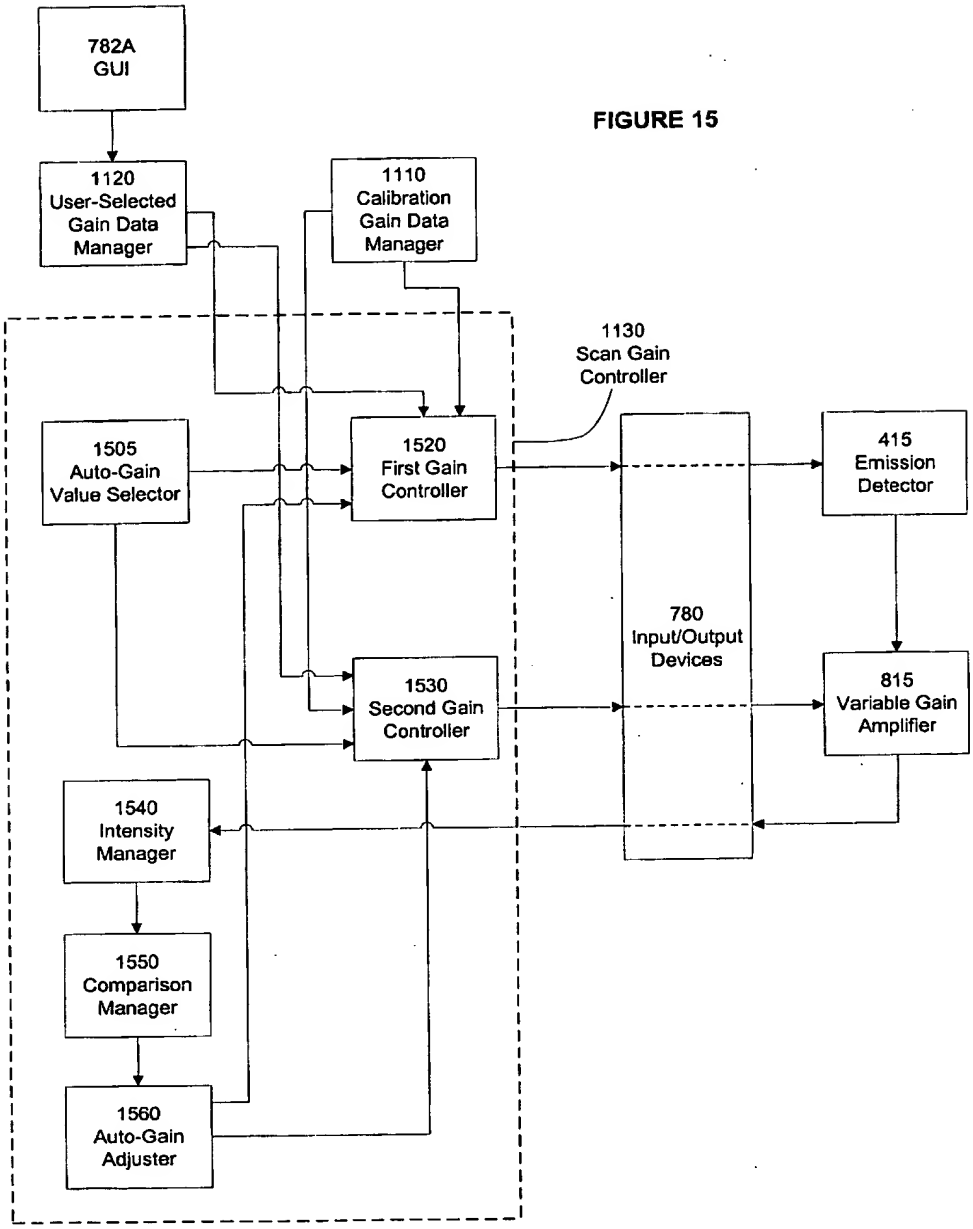

782A
GUI
1120
User-Selected
Gain Data
Manager
1110
Calibration
Gain Data
Manager
1130
Scan Gain
Controller
1505
Auto-Gain
Value Selector
1520
First Gain
Controller
415
Emission
Detector
780
Input/Output
Devices
1530
Second Gain
Controller
815
Variable Gain
Amplifier
1540
Intensity
Manager
1550
Comparison
Manager
1560
Auto-Gain
Adjuster

FIGURE 15